

WHAT IS CLAIMED IS:

1            1.    A nucleic acid segment comprising at least 10  
2 contiguous nucleotides from a sequence shown in Table 1  
3 including a polymorphic site; or the complement of the  
4 segment.

1            2.    The nucleic acid segment of claim 1, wherein the  
2 segment is less than 100 bases.

1            3.    The nucleic acid segment of claim 1 that is  
2 DNA.

1            4.    The nucleic acid segment of claim 1 that is RNA.

1            5.    The segment of claim 1 that is less than 50  
2 bases.

1            6.    The segment of claim 1 that is less than 20  
2 bases.

1            7.    The segment of claim 1, wherein the polymorphic  
2 site is diallelic.

1            8.    An allele-specific oligonucleotide that  
2 hybridizes to a sequence shown in Table 1 or its complement.

1            9.    The allele-specific oligonucleotide of claim 8  
2 that is a probe.

1            10.   The allele-specific oligonucleotide of claim 9,  
2 wherein the a central position of the probe aligns with the  
3 polymorphic site in the sequence.

1            11.   The allele-specific oligonucleotide of claim 8  
2 that is a primer.

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1           13. A method of analyzing a nucleic acid, comprising:  
2 obtaining the nucleic acid from a subject; and determining a  
3 base occupying any one of the polymorphic sites shown in Table  
4 1.

1           15. The method of claim 16, wherein the nucleic acid  
2 is obtained from a plurality of subjects, and a base occupying  
3 one of the polymorphic positions is determined in each of the  
4 subjects, and the method further comprises testing each  
5 subject for the presence of a phenotype, and correlating the  
6 presence of the phenotype with the base.